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TITLE: PRODUCTION OF ADHESIVE HYDORGEL

PUBN-DATE: October 7, 1997

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JAPAN ATOM ENERGY RES INST

NICHIBAN CO LTD

APPL-NO: JP08077592

APPL-DATE: March 29, 1996

INT-CL (IPC): A61L 15/58; C08J 3/28; C08L 29/04; C08L 35/00; C08L 39/06;
C09J 129/04

ABSTRACT:

PROBLEM TO BE SOLVED: To make it possible to prepare an adhesive PVA hydrogel without using a cross-linking agent and improve its safety to the human body by exposing radiation onto the water solution containing a polymer such like polyvinyl alcohol, polyvinylpyrrolidone and methyl vinyl ether maleic acid anhydride copolymer.

SOLUTION: When preparing the material suitable to human body, particularly an adhesive polyvinyl alcohol (PVA) hydrogel, a PVA mixture water solution containing PVA and a polymer selected from polyvinylpyrrolidone (PVP), methyl vinyl ether maleic acid anhydride copolymer and isobutylene maleic acid anhydride copolymer is cross-linked by radiation exposure. A PVA hydrogel having adhesiveness is thus obtained without using a special addition agent. It's desirable that this PVA is degree of saponification of 78-100 mole % and the average degree of polymerization of over than 1000 and that the PVP has the weight average molecular weight of 20,000-150,000.

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